

UNITED STATES GOVERNMENT

# Memorandum

TO : Director of Communications

OCE-M76-153

DATE: 5 April 1976

25X1 FROM :   
Chief, Communications Engineering

SUBJECT: Monthly Narrative Summary Report -- March 1976

1. The CDS Maintenance Training Course began at  on 1 March 1976 with eight students enrolled in the 14-week course. The in-plant integration testing for CDS was completed on 5 March 1976. Immediately following completion of the integration test, the remainder of the equipment was packed and shipped to Headquarters. The equipment arrived on 16 March, and installation has proceeded on course with minor delays caused by lost/missing connector cables. Installation is expected to be completed on 2 April with the printers/VDU's in a test configuration rather than in operating position locations.

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2. A letter was forwarded to OL/PD denying a  request for a one-month delay in the ARS-V installation schedule. An in-plant inspection of the system was completed during the 17-19 March period. Delivery of the hardware to the installation site is scheduled for 5 April 1976.

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3. Two of the three Compuscan OCR units ordered through NSA for use with AFT were accepted at the Compuscan facility on 3 March 1976 and are en route to Agency facilities. OC personnel visited NSA to review the  project status in relation to an allegation made by a  representative that AFT requirements could be satisfied with one of the  systems. The allegation was nullified based on discussion with NSA personnel. The deadline for AFT responses is still 5 April 1976.

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4. HF mod<sup>m</sup>em and error-control equipment tests were conducted on the  circuit with promising results. The use of Barry Research (BR) modems produced a marked improvement in receive quality in comparison to FSK operation. Reports from the field did not quantify improvement with the American Computer Communication (ACC); however, operation was reported as successful. Comparison tests of wideband (850 Hz) and narrowband (85 Hz) FSK operation were initiated. Results of the initial FSK comparison test were inconclusive, and further reporting is expected.

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25X1 5. [ ] Systems Company failed the in-plant preacceptance test conducted during the reporting period. Further investigation and evaluation of the Tandem Switch Program are under way.

25X1 6. First Article MX-113 SKYMUX multiplexers were returned to Timeplex for correction of discrepancies noted during acceptance testing. The COTR accompanied the units to the plant to verify that the corrections were made and that the corrected units performed according to specification. Field testing at [ ] will commence shortly.

7. A Stelma design engineer visited our TEMPEST facility on 24 March to observe and resolve an emanations problem uncovered during the TEMPEST evaluation of the CU-113 Crypto Control Unit. Adding a resistor on the output of the red interface lines reduced the emanations below the limit specified by NACSEM 5100. COMSEC has reported that the CU-113 now meets NACSEM 5100 requirements and the First Article units can be accepted.

8. The SATCAL system has been reconfigured to allow character format answer-back signalling vice the level-change signalling originally proposed. The SATCAL system will be completely compatible with both the MX-113 and the Harris two-channel mux. The SK-113, Field Unit, and SE-113, [ ] Base Unit, contract and specifications are being amended to incorporate the above changes. 25X1

25X1 9. The final draft of the [ ] Installation Standards Manual was coordinated with respective elements of the Agency [ ] An initial quantity of 350 copies has been printed and is scheduled for distribution soon. 25X1

25X1 10. The [ ] Receiver Site Building contract for the concrete modular construction was awarded as Project TURNKEY. The majority of the GFE has been delivered to the contractor, and the project is on schedule.

25X1 11. The [ ] satellite experienced three outages for the month, totaling approximately four days. 25X1 The [ ] satellite, which continues as the space segment for the links to [ ], has experienced brief daily outages due to the extended eclipse cycle. 25X1

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25X1 The SC-1A installation at [ ] was completed, and the  
terminal characterized during the month. At [ ] the 25X1  
SC-1A installation was begun. Installation of the [ ]  
[ ] was com- 25X1  
pleted, and the equipment was well received by station  
personnel.

25X1 12. Mr. [ ] Chief, TSB, is attending the  
Mid-Career Course, which started on 20 March 1976.

13. TSB representatives visited NSA to discuss  
Automatic Test Equipment used in their technical support  
facilities. The visit provided firsthand, practical informa-  
tion on the use of ATE systems.

25X1 14. Medium-speed tests were conducted between [ ] 25X1  
and [ ] early in March. [ ] utilized the CV-651 converter/  
control units with 651S receivers to receive the [ ] trans- 25X1  
missions. As a result of these tests, the CV-651 converter/  
control unit design has been frozen and production units are  
being scheduled.

25X1 16. A number of meetings and briefings were held during  
March on the proposed [ ] satellites. Chief,  
CED, as well as COD, CED, and COMSEC personnel have been  
involved with OD&E in an effort to coordinate on decisions  
prior to any follow-on contract for these satellites.

25X1 17. With the assistance of RSB engineer, Mr. [ ] 25X1  
[ ] hopes to complete the market survey for a 20-watt,  
3-30 MHz, HF transmitter and synthesizer within the next  
two weeks. A number of companies have been contacted and  
are in the process of submitting proposals on equipment that  
would meet our needs.

18. The first phase of the RS-708/709 update program  
is on schedule with the base/receive system (SR-4) expected  
to be completed by June 1976.

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19. Procurement action for 85 AEL power supplies f/u/w the SV-8 was initiated this month and a contract awarded for the external fabrication of 225 SV-8 shipping containers. In addition, two MX-300 UHF transceivers were received and are pending evaluation.

20. The scripts for the first three lessons of the SV-8 Audio/Visual Training Package were reviewed by representatives of OC-O/COD, OC-E/CED, OC-S/CMD, and OC-CS; and agreement to proceed to the production version was reached.



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Distribution:

Original - D/CO; DD/CO; OC-EXA; OC-P&B; OC-IC (Archives)  
1 - OC-O; OC-O/D  
1 - OC-S; OC-CS

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